

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564696

Luminaire Tested: **SQ4-PW1-050U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564696
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-050U-125D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13623.1 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

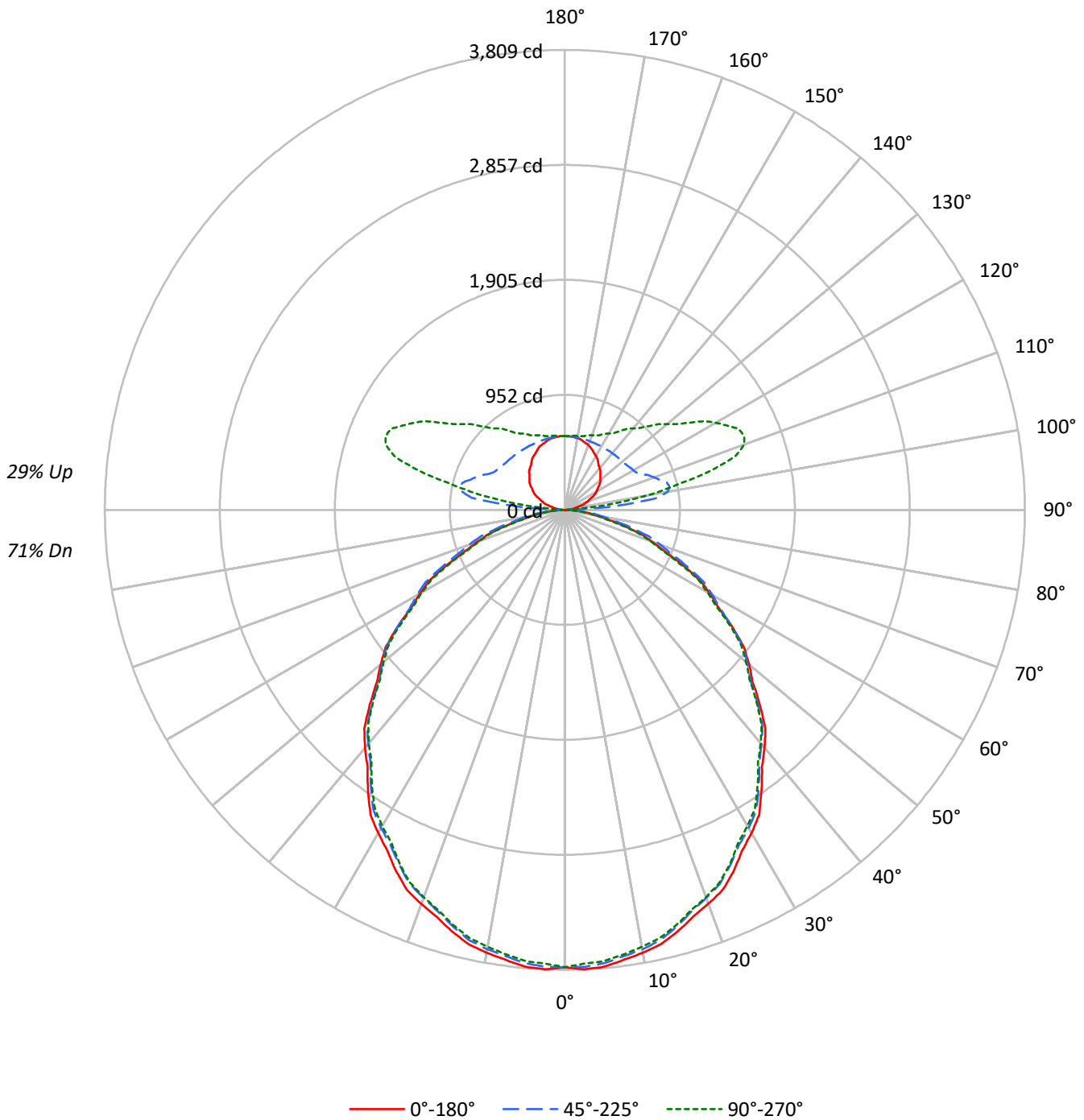
Input Watts (W): 114.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P564696

CATALOG NUMBER: SQ4-PW1-050U-125D-835-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P564696

CATALOG NUMBER: SQ4-PW1-050U-125D-835-1D-UNV-STD-W-8

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	94	91	97	93	90	86	84	81	78	75	73	71	67	65	64	60
2	94	86	80	74	88	82	76	71	73	69	65	66	62	59	59	56	54	50
3	85	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	41	35	58	47	39	34	42	36	32	39	33	29	35	31	27	25
8	57	44	36	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17473	17473	17473
5°	17586	17447	17370
10°	17446	17305	17211
15°	17260	17069	17005
20°	17054	16792	16759
25°	16816	16510	16460
30°	16461	16212	16105
35°	15993	15768	15674
40°	15494	15253	15193
45°	14891	14696	14631
50°	14274	14155	14058
55°	13607	13607	13393
60°	12777	13024	12562
65°	11693	12276	11401
70°	10307	11297	10038
75°	8803	10111	8566
80°	6827	8512	6915
85°	4414	6537	5828



TEST NUMBER: P564696

CATALOG NUMBER: SQ4-PW1-050U-125D-835-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.7	2.6
10°-20°	1007.0	7.4
20°-30°	1493.7	11.0
30°-40°	1747.8	12.8
40°-50°	1740.0	12.8
50°-60°	1502.5	11.0
60°-70°	1081.5	7.9
70°-80°	567.2	4.2
80°-90°	143.0	1.0
90°-100°	292.9	2.2
100°-110°	795.7	5.8
110°-120°	818.1	6.0
120°-130°	654.1	4.8
130°-140°	513.9	3.8
140°-150°	394.1	2.9
150°-160°	283.4	2.1
160°-170°	173.3	1.3
170°-180°	58.4	0.4
0°-30°	2857.3	21.0
0°-40°	4605.1	33.8
0°-60°	7847.5	57.6
0°-90°	9639.2	70.8
90°-120°	1906.7	14.0
90°-150°	3468.7	25.5
90°-180°	3984.0	29.2
0°-180°	13623.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3788	3788	3788	3788	3788	
5°	3798	3755	3768	3758	3751	360
15°	3614	3568	3574	3567	3561	1019
25°	3304	3248	3244	3224	3234	1519
35°	2840	2801	2800	2773	2783	1775
45°	2283	2263	2253	2246	2243	1761
55°	1692	1689	1692	1668	1665	1510
65°	1071	1104	1125	1080	1044	1062
75°	494	540	567	530	481	529
85°	83	110	124	117	110	110
90°	2	8	14	18	18	6
95°	43	160	510	222	149	46
105°	141	220	875	1332	1254	150
115°	251	305	700	1393	1587	248
125°	345	393	634	1068	1260	308
135°	416	462	616	870	981	322
145°	481	515	608	739	795	302
155°	543	563	604	664	683	251
165°	589	596	606	632	634	166
175°	610	612	608	616	614	58
180°	610	610	610	610	610	



TEST NUMBER: P564696

CATALOG NUMBER: SQ4-PW1-050U-125D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3787.7	3787.7	3787.7	3787.7	3787.7
2.5°	3809.0	3777.7	3787.7	3779.3	3761.0
5°	3797.7	3755.3	3767.7	3757.5	3751.0
7.5°	3759.0	3719.8	3728.9	3718.2	3714.3
10°	3724.3	3685.1	3694.2	3680.7	3674.2
12.5°	3684.2	3642.5	3651.5	3638.1	3634.2
15°	3614.1	3568.5	3574.1	3567.3	3560.7
17.5°	3532.7	3486.4	3487.3	3476.6	3475.3
20°	3474.0	3425.0	3420.6	3407.4	3413.9
22.5°	3409.9	3358.4	3353.8	3335.4	3344.5
25°	3303.8	3248.3	3243.7	3223.9	3233.7
27.5°	3181.0	3126.2	3126.3	3098.5	3108.9
30°	3090.2	3038.0	3043.5	3010.4	3023.5
32.5°	2994.1	2947.1	2950.0	2917.0	2930.0
35°	2839.9	2800.8	2799.9	2773.4	2783.2
37.5°	2682.4	2647.8	2642.4	2627.1	2629.7
40°	2572.9	2543.6	2532.9	2522.9	2522.9
42.5°	2458.2	2431.4	2420.8	2413.4	2410.8
45°	2282.6	2263.0	2252.6	2245.8	2242.6
47.5°	2109.1	2090.8	2081.7	2077.0	2073.7
50°	1988.9	1975.9	1972.3	1962.2	1958.9
52.5°	1868.8	1861.0	1857.5	1844.7	1841.4
55°	1691.9	1688.7	1691.9	1668.5	1665.2
57.5°	1507.7	1512.9	1523.7	1492.2	1484.4
60°	1384.9	1398.0	1411.6	1374.6	1361.6
62.5°	1259.4	1280.3	1299.5	1257.0	1238.8
65°	1071.2	1103.9	1124.6	1080.4	1044.5
67.5°	889.7	930.1	955.1	907.5	867.0
70°	764.2	809.9	837.6	789.9	744.2
72.5°	654.8	705.7	728.2	683.1	637.4
75°	493.9	539.6	567.3	529.5	480.6
77.5°	350.4	393.5	416.5	383.5	343.1
80°	257.0	302.6	320.4	292.9	260.3
82.5°	182.2	220.1	232.3	215.7	193.6
85°	83.4	109.5	123.5	116.7	110.1
87.5°	21.8	41.2	53.5	54.3	56.9
90°	2.0	7.7	13.7	17.7	17.7
92.5°	17.7	80.2	139.3	59.8	50.6
95°	43.2	160.2	510.1	222.0	149.1
97.5°	71.4	176.9	782.0	608.4	427.3
100°	90.2	188.1	865.2	877.1	708.2
102.5°	109.1	199.2	887.2	1084.7	935.8
105°	141.3	219.9	875.0	1332.3	1253.6
107.5°	174.6	244.1	824.4	1460.1	1482.0
110°	198.2	261.5	786.7	1485.3	1579.3

TEST NUMBER: P564696

CATALOG NUMBER: SQ4-PW1-050U-125D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	218.6	278.8	749.1	1464.4	1606.0
115°	251.1	304.8	700.4	1393.4	1587.2
117.5°	281.7	333.1	669.4	1292.7	1511.0
120°	302.1	352.0	655.3	1225.2	1442.0
122.5°	319.4	369.3	645.9	1157.6	1366.7
125°	345.3	393.3	633.7	1067.7	1259.5
127.5°	368.4	416.0	627.0	999.6	1164.2
130°	382.6	428.6	623.9	956.8	1104.5
132.5°	396.7	442.7	620.7	920.4	1051.2
135°	415.9	462.0	616.0	869.7	980.9
137.5°	436.7	478.5	613.7	824.9	918.6
140°	449.3	489.6	612.1	796.5	880.9
142.5°	461.8	499.0	610.5	774.2	844.8
145°	480.7	515.2	608.2	738.9	794.6
147.5°	501.9	531.4	606.2	711.2	754.9
150°	516.0	540.9	606.2	695.3	729.8
152.5°	527.0	548.8	604.7	681.0	709.4
155°	543.4	562.6	604.3	663.6	682.7
157.5°	559.5	574.5	604.3	651.7	666.3
160°	568.9	582.4	604.3	643.8	655.3
162.5°	578.4	588.7	605.8	637.4	645.9
165°	588.6	596.2	606.2	631.8	633.7
167.5°	599.2	603.0	608.2	625.1	626.6
170°	602.3	606.1	608.2	621.9	621.9
172.5°	605.4	607.7	608.2	618.8	618.8
175°	610.1	612.1	608.2	616.0	614.1
177.5°	611.7	611.7	607.0	613.2	610.1
180°	610.1	610.1	610.1	610.1	610.1

(END OF REPORT)